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COMMUNICABLE DISEASE CENTER

Morbidity and Mortality

Vol. 14, No. 40

WEEKLY REPORT

Week Ending October 9, 1965

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE

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BOTULISM – Fullerton, California

Two cases of suspected botulism were reported by the Orange County Health Department on October 1, 1965. The patients were a 43-year-old woman and her daughter of 18 years. Both had eaten some home-canned albacore. This tuna fish had been brought home from a fishing trip by the father of the family on September 10. On September 13 parts of the fish were cooked in a pressure cooker for 1½ hours at 220°F and then placed in Mason jars which were stored at room temperature. The rest of the fish was frozen or given away as fillets.

On September 19 the daughter ate two small pieces of albacore from one of the Mason jars. Three days later she developed symptoms of blurred vision and diplopia which continued until September 26 with only mild disability resulting. On that day the mother and daughter prepared a salad containing some of the canned fish, pickles, mayonnaise and olives. The father was away from home when the salad was served for lunch on the same day it was prepared. The two sons of the family tasted the salad, complained of the taste and did not eat any of it. The mother and the daughter ate quantities which have not been determined.

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CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	40th WEEK ENDED		MEDIAN 1960–1964	CUMULATIVE, FIRST 40 WEEKS		
	OCTOBER 9, 1965	OCTOBER 3, 1964		1965	1964	MEDIAN 1960–1964
Aseptic meningitis	76	52	89	1,572	1,564	1,945
Brucellosis	4	8	8	197	326	326
Diphtheria	3	7	10	116	192	323
Encephalitis, primary infectious	39	86	---	1,388	2,460	---
Encephalitis, post-infectious	9	4	---	567	703	---
Hepatitis, infectious including serum hepatitis	561	735	884	26,090	29,773	33,519
Measles	830	718	888	242,096	463,650	398,286
Meningococcal infections	48	37	37	2,424	2,149	1,688
Poliomyelitis, Total	2	3	37	45	87	645
Paralytic	–	2	34	35	71	507
Nonparalytic	–	–	---	6	10	---
Unspecified	2	1	---	4	6	---
Streptococcal Sore Throat and Scarlet fever	5,487	5,565	4,406	304,085	310,111	249,989
Tetanus	6	4	---	205	214	---
Tularemia	5	8	---	197	262	---
Typhoid fever	18	12	15	332	328	489
Rabies in Animals	52	104	60	3,428	3,591	2,955

NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	7	Rabies in Man:	1
Botulism: Calif:-2	13	Smallpox:	–
Leptospirosis: La.-2, Hawaii-2	39	Trichinosis:	78
Malaria: Conn.-1	63	Typhus–	
Plague:	6	Murine:	22
Psittacosis:	36	Rky. Mt. Spotted: NJ-1, Ill.-1, Ga.-4, Va.-1	240
Cholera:	2		

BOTULISM – Fullerton, California

(Continued from front page)

The same night, September 26, the daughter's symptoms became worse and over the next few days she developed dysphagia, dysphonia and postural hypotension. The mother also became ill that same night with weakness, difficulty in talking and parasthesias, later developing dysphagia and nausea without vomiting. Her symptoms continued to increase in severity, she became progressively weaker and by September 30 had developed frank dysphonia and inability to swallow. She was admitted to the hospital that day. Meantime the daughter had begun to have difficulty in respiration and she in turn was taken to the hospital on October 1.

On October 1, the State Bureau of Communicable Diseases was notified that these were two suspected cases of botulism; antitoxin, polyvalent for types A, B, E and F was obtained from the CDC San Francisco Field Station. The mother and daughter were each given one dose of antitoxin on the night of October 1 and one dose on the morning of October 2. The daughter has since made an uninterrupted recovery. The mother, however, required four additional doses of antitoxin. One was given on the night of October 2 but after some improvement the next morning, she developed respiratory difficulty which required tracheostomy to maintain breathing. Two further doses were given on October 3 and one on October 4. The mother is recovering slowly and it will be some time before she is well enough to leave the hospital.

Serum was obtained from both patients before antitoxin was given. Aliquots of the serum, the remainder of the salad, the unopened jars of albacore and the frozen fillet are being examined concurrently at each of the California Department of Public Health Laboratory, the Hooper Foundation, and the CDC Laboratory.

(Reported by Dr. Henry A. Renteln, Head, Special Surveillance Section, Bureau of Communicable Diseases, California Department of Public Health; Dr. Russell Watson, Orange County Community Disease Control Officer; Dr. William Cohen, the Attending Physician, and an EIS Officer.)

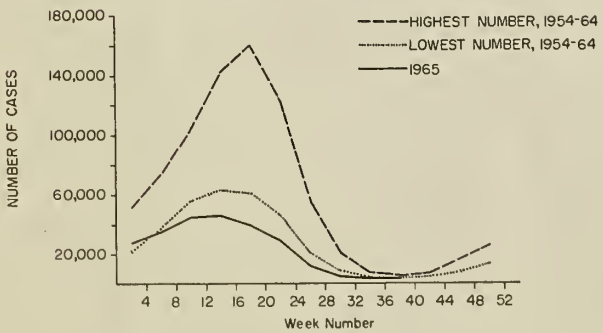
EPIDEMIOLOGIC NOTES AND REPORTS

MEASLES – Current Trends

A total of 242,096 cases of measles has been reported from January 1 through October 9, 1965. The relationship of this total to the years of highest and lowest incidence during the past decade is shown in Figure 1. The seasonal occurrence of measles by 4-week periods during the past 10 years and its distribution through the geographic divisions of the United States are shown in Figure 2 and Table 1 respectively.

Figure 1.

REPORTED MEASLES
BY FOUR-WEEK PERIODS, UNITED STATES
1965 COMPARED WITH 11 YEAR PERIOD, 1954-1964



For 10 years past, the lowest incidence of measles has occurred during the 37th to 40th weeks. This year scattered outbreaks in various parts of the United States, particularly in rural areas, have given rise to a higher total for this 4-week period than for the one immediately preceding. Five counties in Colorado, Kentucky and Tennessee, with a combined population of 54,000, have reported more than 250 cases in the past 4 weeks.

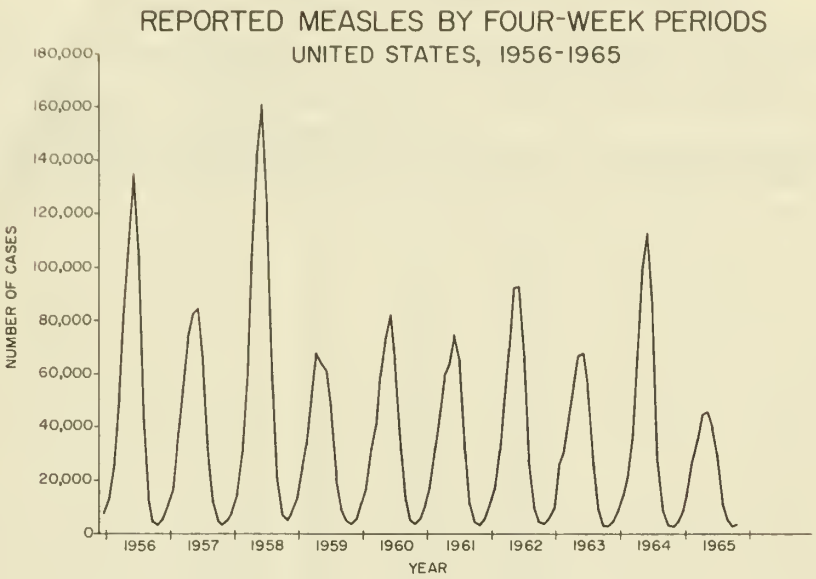
According to mortality data for measles for the past 10 years, an average of 434 deaths occur each year. Preliminary data, based on a 10 percent sampling of

TABLE 1
REPORTED CASES OF MEASLES BY GEOGRAPHIC DIVISION, WEEKS 1–40, 1960-65

Geographic Division	1960	1961	1962	1963	1964	1965*
New England	40,097	37,382	56,677	14,202	17,062	36,876
Middle Atlantic	56,127	79,343	85,795	41,286	52,263	14,945
East North Central	123,087	106,938	64,811	148,330	103,101	56,104
West North Central	8,334	13,680	15,955	20,026	30,301	16,646
South Atlantic	20,246	40,368	28,327	32,551	38,499	25,028
East South Central	32,026	28,183	35,070	18,128	67,877	13,978
West South Central	51,554	16,257	69,632	21,031	72,194	31,026
Mountain	21,903	17,570	27,025	28,603	18,784	19,852
Pacific	50,521	49,562	62,402	36,730	63,569	27,641
Total	403,895	389,283	445,694	360,887	463,650	242,096

*Provisional data

Figure 2



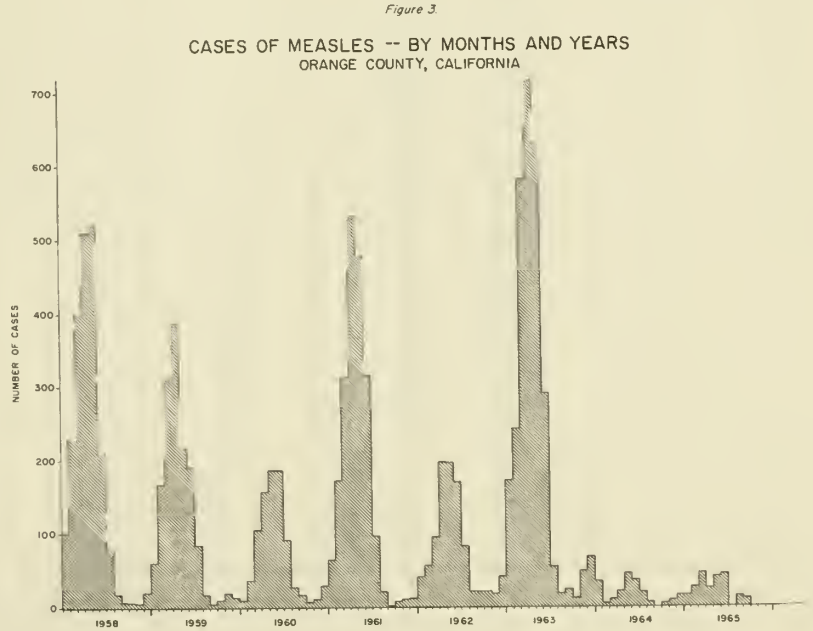
death certificates, indicate that there were 440 measles deaths in 1964 (Monthly Vital Statistics Report, National Center for Health Statistics.)

Since the live attenuated measles virus vaccine was licensed for general use in 1962, seven million doses had been distributed by January 1965; an additional four million doses have been distributed since. This is enough vaccine to immunize nearly all children born in the United States in 3 years, although the proportion of the 11 million doses used to immunize children actually susceptible to measles is unknown.

Major epidemics of measles are to be expected during the next 6 months in areas of the United States where vaccine is not being used extensively to immunize susceptible age groups, particularly among pre-school children. Accordingly, the experience of measles during the coming winter among both well vaccinated and inadequately vaccinated groups of children is confidently expected to demonstrate the preventive impact of the currently used measles vaccine both on reported incidence and on mortality.

(Reported by the Childhood Virus Disease Unit of CDC.)

Figure 3



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CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
OCTOBER 9, 1965 AND OCTOBER 3, 1964 (40th WEEK)

Area	Aseptic Meningitis		Encephalitis		Poliomyelitis						Diphtheria	
			Primary	Post-Inf.	Total Cases			Paralytic				
						Cumulative			Cumulative			Cum.
	1965	1964	1965	1965	1965	1965	1964	1965	1965	1964	1965	1965
UNITED STATES...	76	52	39	9	2	45	87	-	35	71	3	116
NEW ENGLAND.....	4	1	2	-	-	-	2	-	-	2	-	2
Maine.....	-	-	-	-	-	-	1	-	-	1	-	-
New Hampshire*.....	---	-	---	---	---	-	-	---	-	-	---	-
Vermont.....	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts.....	2	-	2	-	-	-	-	-	-	-	-	2
Rhode Island.....	2	1	-	-	-	-	-	-	-	-	-	-
Connecticut.....	-	-	-	-	-	-	1	-	-	1	-	-
MIDDLE ATLANTIC.....	6	6	12	1	-	4	13	-	3	12	-	5
New York City.....	1	-	8	-	-	1	1	-	-	1	-	3
New York, Up-State.	-	1	3	-	-	-	10	-	-	9	-	-
New Jersey.....	3	5	1	-	-	3	2	-	3	2	-	-
Pennsylvania.....	2	-	-	1	-	-	-	-	-	-	-	2
EAST NORTH CENTRAL...	16	7	6	2	-	2	19	-	2	15	1	5
Ohio.....	3	2	3	-	-	-	2	-	-	2	-	1
Indiana.....	-	-	2	-	-	-	6	-	-	5	-	2
Illinois.....	8	3	1	2	-	1	6	-	1	5	1	1
Michigan.....	4	2	-	-	-	1	3	-	1	2	-	-
Wisconsin.....	1	-	-	-	-	-	2	-	-	1	-	1
WEST NORTH CENTRAL...	9	1	5	-	-	10	9	-	7	7	-	18
Minnesota.....	9	1	-	-	-	1	3	-	1	2	-	7
Iowa.....	-	-	-	-	-	4	-	-	2	-	-	1
Missouri.....	-	-	-	-	-	1	4	-	-	3	-	1
North Dakota.....	-	-	1	-	-	-	1	-	-	1	-	-
South Dakota.....	-	-	-	-	-	-	-	-	-	-	-	7
Nebraska.....	-	-	1	-	-	3	-	-	3	-	-	1
Kansas.....	-	-	3	-	-	1	1	-	1	1	-	1
SOUTH ATLANTIC.....	2	5	4	3	-	1	21	-	1	16	1	30
Delaware.....	-	-	-	-	-	-	-	-	-	-	-	-
Maryland.....	-	-	1	-	-	1	1	-	1	1	-	-
Dist. of Columbia..	-	-	-	-	-	-	-	-	-	-	-	3
Virginia.....	-	4	3	-	-	-	-	-	-	-	-	-
West Virginia.....	-	-	-	-	-	-	1	-	-	1	-	-
North Carolina.....	-	-	-	-	-	-	10	-	-	6	-	2
South Carolina.....	1	-	-	-	-	-	-	-	-	-	-	1
Georgia.....	-	-	-	-	-	-	1	-	-	1	1	15
Florida.....	1	1	-	3	-	-	8	-	-	7	-	9
EAST SOUTH CENTRAL...	1	3	-	-	-	1	6	-	1	5	1	18
Kentucky.....	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee.....	1	3	-	-	-	1	3	-	1	2	1	1
Alabama.....	-	-	-	-	-	-	2	-	-	2	-	15
Mississippi.....	-	-	-	-	-	-	1	-	-	1	-	2
WEST SOUTH CENTRAL...	12	3	-	-	-	16	8	-	14	8	-	29
Arkansas.....	-	-	-	-	-	-	-	-	-	-	-	2
Louisiana.....	-	1	-	-	-	1	-	-	1	-	-	6
Oklahoma.....	-	-	-	-	-	1	2	-	1	2	-	-
Texas.....	12	2	-	-	-	14	6	-	12	6	-	21
MOUNTAIN.....	-	3	6	-	-	5	6	-	3	3	-	-
Montana.....	-	-	1	-	-	-	-	-	-	-	-	-
Idaho.....	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming.....	-	-	-	-	-	-	2	-	-	2	-	-
Colorado.....	-	3	-	-	-	-	1	-	-	1	-	-
New Mexico.....	-	-	5	-	-	1	3	-	1	-	-	-
Arizona.....	-	-	-	-	-	4	-	-	2	-	-	-
Utah.....	-	-	-	-	-	-	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	26	23	4	3	2	6	3	-	4	3	-	9
Washington*.....	---	-	---	---	---	2	-	---	2	-	---	3
Oregon.....	-	-	1	-	-	1	1	-	1	1	-	1
California.....	25	23	3	3	2	3	2	-	1	2	-	5
Alaska.....	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii.....	1	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	-	-	-	-	-	-	-	-	12

*Reports for 40th week not received.

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

OCTOBER 9, 1965 AND OCTOBER 3, 1964 (40th WEEK) - Continued

Area	Brucellosis	Infectious Hepatitis including Serum Hepatitis					Meningococcal Infections			Tetanus	
		Total incl. unk.	Under 20 years	20 years and over	Cumulative Totals			Cumulative			Cum.
	1965	1965	1965	1965	1965	1964	1965	1965	1964	1965	1965
UNITED STATES...	4	561	275	261	26,090	29,773	48	2,424	2,149	6	205
NEW ENGLAND.....	-	29	13	15	1,522	2,734	3	123	61	-	5
Maine.....	-	4	3	1	269	868	-	16	5	-	-
New Hampshire.*.....	---	---	---	---	153	212	---	7	1	---	1
Vermont.....	-	3	1	2	83	342	-	7	4	-	-
Massachusetts.....	-	12	6	6	601	599	3	43	24	-	3
Rhode Island.....	-	3	1	2	171	153	-	14	10	-	-
Connecticut.....	-	7	2	4	245	560	-	36	17	-	1
MIDDLE ATLANTIC.....	-	107	46	61	4,648	6,605	3	314	272	-	13
New York City.....	-	30	11	19	925	1,011	-	54	36	-	-
New York, Up-State.	-	28	12	16	1,774	2,884	1	91	75	-	5
New Jersey.....	-	19	7	12	877	1,128	1	81	93	-	1
Pennsylvania.....	-	30	16	14	1,072	1,582	1	88	68	-	7
EAST NORTH CENTRAL...	-	116	67	45	5,021	4,665	7	347	293	1	29
Ohio.....	-	28	12	14	1,379	1,234	1	93	75	-	2
Indiana.....	-	15	10	4	440	407	2	45	46	-	7
Illinois.....	-	25	14	11	956	859	1	94	75	1	14
Michigan.....	-	39	24	15	1,923	1,833	2	76	67	-	3
Wisconsin.....	-	9	7	1	323	332	1	39	30	-	3
WEST NORTH CENTRAL...	4	27	12	13	1,497	1,598	-	123	128	-	18
Minnesota.....	-	2	1	1	155	183	-	27	29	-	8
Iowa.....	3	6	4	1	525	246	-	9	7	-	4
Missouri.....	-	9	3	5	318	394	-	52	57	-	2
North Dakota.....	-	-	-	-	27	58	-	11	18	-	-
South Dakota.....	-	-	-	-	20	126	-	3	3	-	-
Nebraska.....	-	5	3	2	69	42	-	10	6	-	2
Kansas.....	1	5	1	4	383	549	-	11	8	-	2
SOUTH ATLANTIC.....	-	49	22	19	2,698	2,803	6	462	421	1	47
Delaware.....	-	1	-	1	65	55	1	8	6	-	-
Maryland.....	-	9	3	4	473	524	-	44	31	-	1
Dist. of Columbia..	-	1	-	-	39	51	-	9	13	-	-
Virginia.....	-	20	8	7	642	439	2	56	49	-	7
West Virginia.....	-	3	1	2	376	407	1	25	33	-	1
North Carolina.....	-	2	1	1	256	469	1	94	72	1	7
South Carolina.....	-	-	-	-	122	104	1	60	50	-	6
Georgia.....	-	-	-	-	93	85	-	57	62	-	5
Florida.....	-	13	9	4	632	669	-	109	105	-	20
EAST SOUTH CENTRAL...	-	16	6	10	1,849	2,068	5	190	173	3	27
Kentucky.....	-	4	3	1	659	755	2	73	57	-	6
Tennessee.....	-	5	2	3	621	719	-	60	55	2	9
Alabama.....	-	5	-	5	336	388	1	35	37	1	10
Mississippi.....	-	2	1	1	233	206	2	22	24	-	2
WEST SOUTH CENTRAL...	-	45	18	24	2,275	2,332	4	315	246	1	45
Arkansas.....	-	3	1	2	293	220	-	15	23	1	11
Louisiana.....	-	5	2	3	368	573	3	174	119	-	5
Oklahoma.....	-	-	-	-	49	110	-	20	10	-	1
Texas.....	-	37	15	19	1,565	1,429	1	106	94	-	28
MOUNTAIN.....	-	22	11	4	1,457	1,785	12	86	73	-	3
Montana.....	-	9	4	2	118	158	-	2	-	-	-
Idaho.....	-	-	-	-	183	252	1	9	3	-	-
Wyoming.....	-	-	-	-	40	57	-	5	5	-	-
Colorado.....	-	6	6	-	311	476	9	24	12	-	2
New Mexico.....	-	2	-	2	309	250	-	11	29	-	-
Arizona.....	-	4	-	-	307	395	-	16	7	-	1
Utah.....	-	1	1	-	180	146	2	16	7	-	-
Nevada.....	-	-	-	-	9	51	-	3	10	-	-
PACIFIC.....	-	150	80	70	5,123	5,183	8	464	482	-	18
Washington.*.....	---	---	---	---	387	538	---	34	33	---	-
Oregon.....	-	13	8	5	436	553	-	33	21	-	4
California.....	-	125	69	56	4,061	3,807	7	371	409	-	14
Alaska.....	-	4	2	2	192	181	-	18	7	-	-
Hawaii.....	-	8	1	7	47	104	1	8	12	-	-
Puerto Rico	-	5	5	-	1,117	805	2	9	31	2	44

*Reports for 40th week not received.

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

OCTOBER 9, 1965 AND OCTOBER 3, 1964 (40th WEEK) - Continued

Area	Measles			Strept. Sore Th. & Scarlet Fev.	Tularemia		Typhoid Fever		Rabies in Animals	
		Cumulative				Cum.		Cum.		Cum.
	1965	1965	1964	1965	1965	1965	1965	1965	1965	1965
UNITED STATES...	830	242,096	463,650	5,487	5	197	18	332	52	3,428
NEW ENGLAND.....	37	36,876	17,062	506	-	1	2	6	-	39
Maine.....	14	2,816	3,028	37	-	-	-	-	-	4
New Hampshire*.....	---	381	255	---	---	-	---	-	---	1
Vermont.....	15	1,283	2,332	36	-	-	-	-	-	31
Massachusetts.....	5	19,303	5,375	103	-	1	-	3	-	2
Rhode Island.....	-	3,938	1,938	16	-	-	-	1	-	-
Connecticut.....	3	9,155	4,134	314	-	-	2	2	-	1
MIDDLE ATLANTIC.....	102	14,945	52,263	230	-	-	5	60	4	143
New York City.....	23	2,439	15,360	4	-	-	2	29	-	-
New York, Up-State.	14	4,157	12,727	180	-	-	2	15	4	130
New Jersey.....	45	2,622	12,223	34	-	-	-	7	-	-
Pennsylvania.....	20	5,727	11,953	12	-	-	1	9	-	13
EAST NORTH CENTRAL...	213	56,104	103,101	367	-	13	-	39	14	529
Ohio.....	7	8,902	19,643	24	-	-	-	9	10	272
Indiana.....	41	1,888	22,817	88	-	5	-	8	-	64
Illinois.....	13	2,777	16,644	63	-	5	-	10	1	82
Michigan.....	106	26,579	28,969	146	-	2	-	7	2	53
Wisconsin.....	46	15,958	15,028	46	-	1	-	5	1	58
WEST NORTH CENTRAL...	68	16,646	30,301	192	2	25	-	11	8	695
Minnesota.....	2	690	334	9	-	1	-	1	1	140
Iowa.....	49	9,050	23,332	47	-	-	-	2	3	198
Missouri.....	3	2,594	1,019	23	-	18	-	7	1	97
North Dakota.....	14	3,745	4,772	101	-	-	-	-	1	44
South Dakota.....	-	115	32	10	-	2	-	-	-	52
Nebraska.....	-	452	812	-	-	-	-	1	1	36
Kansas.....	NN	NN	NN	2	2	4	-	-	1	128
SOUTH ATLANTIC.....	145	25,028	38,499	953	-	31	2	66	4	464
Delaware.....	-	505	411	18	-	-	-	4	-	-
Maryland.....	3	1,166	3,408	83	-	-	1	20	-	22
Dist. of Columbia..	1	78	354	21	-	-	-	-	-	-
Virginia.....	23	3,895	12,717	197	-	8	-	8	1	285
West Virginia.....	58	13,897	8,730	230	-	-	-	3	-	21
North Carolina.....	-	390	1,161	19	-	6	-	15	-	3
South Carolina.....	34	1,052	4,261	171	-	3	-	8	-	2
Georgia.....	-	617	198	1	-	14	1	4	1	59
Florida.....	26	3,428	7,259	213	-	-	-	4	2	72
EAST SOUTH CENTRAL...	30	13,978	67,877	947	1	21	1	33	6	734
Kentucky.....	-	2,586	18,476	28	-	3	-	9	2	78
Tennessee.....	27	7,937	24,340	839	1	17	1	12	4	603
Alabama.....	-	2,335	18,372	56	-	1	-	7	-	16
Mississippi.....	3	1,120	6,689	24	-	-	-	5	-	37
WEST SOUTH CENTRAL...	68	31,026	72,194	551	2	82	5	48	7	549
Arkansas.....	-	1,084	1,124	2	2	56	-	13	1	80
Louisiana.....	1	108	115	2	-	5	1	7	-	70
Oklahoma.....	3	206	1,019	20	-	10	-	6	3	120
Texas.....	64	29,628	69,936	527	-	11	4	22	3	279
MOUNTAIN.....	35	19,852	18,784	746	-	15	1	28	1	75
Montana.....	8	3,739	3,122	22	-	4	-	1	-	5
Idaho.....	4	2,798	1,943	78	-	-	-	-	-	-
Wyoming.....	1	849	262	12	-	3	-	1	-	-
Colorado.....	12	5,690	3,239	345	-	-	-	-	-	9
New Mexico.....	-	677	457	197	-	-	-	11	-	14
Arizona.....	7	1,339	6,684	69	-	-	-	12	1	45
Utah.....	3	4,556	2,085	23	-	8	1	1	-	1
Nevada.....	-	204	992	-	-	-	-	2	-	1
PACIFIC.....	132	27,641	63,569	995	-	9	2	41	8	200
Washington*.....	---	7,245	20,068	---	---	-	---	4	---	7
Oregon.....	16	3,277	8,681	25	-	5	1	8	-	7
California.....	52	13,055	33,123	727	-	4	1	28	8	184
Alaska.....	-	186	1,112	16	-	-	-	-	-	2
Hawaii.....	64	3,878	585	227	-	-	-	1	-	-
Puerto Rico	28	2,463	6,454	16	-	-	-	9	-	13

*Reports for 40th week not received.

Week No. 40

DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED OCTOBER 9, 1965

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over		
NEW ENGLAND:	691	436	28	30
Boston, Mass.	231	135	2	10
Bridgeport, Conn.	39	26	4	2
Cambridge, Mass.	20	14	-	-
Fall River, Mass.	26	16	1	1
Hartford, Conn.	57	27	2	7
Lowell, Mass.	25	19	-	1
Lynn, Mass.	24	20	-	-
New Bedford, Mass.	38	28	3	-
New Haven, Conn.	45	25	1	1
Providence, R. I.	60	37	3	4
Somerville, Mass.	14	8	2	1
Springfield, Mass.	34	23	5	-
Waterbury, Conn.	28	20	-	2
Worcester, Mass.	50	38	5	1
MIDDLE ATLANTIC:	3,191	1,856	117	145
Albany, N. Y.*	45	24	1	2
Allentown, Pa.	35	21	2	2
Buffalo, N. Y.	148	89	2	12
Camden, N. J.	41	23	-	5
Elizabeth, N. J.	26	18	-	1
Erie, Pa.	36	19	5	3
Jersey City, N. J.	59	36	4	2
Newark, N. J.	83	37	3	5
New York City, N. Y.	1,628	941	54	61
Paterson, N. J.	37	28	3	1
Philadelphia, Pa.	495	279	11	34
Pittsburgh, Pa.	201	107	4	6
Reading, Pa.	42	20	5	2
Rochester, N. Y.	101	73	13	3
Schenectady, N. Y.	27	18	1	-
Scranton, Pa.	40	30	2	-
Syracuse, N. Y.	60	37	4	4
Trenton, N. J.	40	20	1	1
Utica, N. Y.	23	18	2	-
Yonkers, N. Y.	24	18	-	1
EAST NORTH CENTRAL:	2,416	1,344	84	139
Akron, Ohio	78	32	-	6
Canton, Ohio	40	26	6	3
Chicago, Ill.	729	377	29	36
Cincinnati, Ohio	162	102	9	6
Cleveland, Ohio	168	97	3	12
Columbus, Ohio	114	56	4	11
Dayton, Ohio	73	47	-	5
Detroit, Mich.	290	171	9	12
Evansville, Ind.	39	25	1	-
Flint, Mich.	45	21	3	5
Fort Wayne, Ind.	35	20	3	1
Gary, Ind.	25	12	5	1
Grand Rapids, Mich.	48	29	5	3
Indianapolis, Ind.	164	82	3	13
Madison, Wis.	50	26	-	4
Milwaukee, Wis.	110	66	1	6
Peoria, Ill.	30	16	-	5
Rockford, Ill.*	27	16	2	2
South Bend, Ind.	40	24	-	2
Toledo, Ohio	92	63	1	4
Youngstown, Ohio	57	36	-	2
WEST NORTH CENTRAL:	762	477	19	51
Des Moines, Iowa	64	42	1	2
Duluth, Minn.	21	16	-	1
Kansas City, Kans.	38	19	2	7
Kansas City, Mo.	125	87	1	5
Lincoln, Nebr.	33	22	-	1
Minneapolis, Minn.	101	66	2	7
Omaha, Nebr.	55	31	1	6
St. Louis, Mo.	201	118	4	11
St. Paul, Minn.	85	51	4	6
Wichita, Kans.	39	25	4	5
SOUTH ATLANTIC:	1,097	561	45	82
Atlanta, Ga.	125	59	10	7
Baltimore, Md.	266	136	7	18
Charlotte, N. C.	53	24	-	3
Jacksonville, Fla.	67	30	1	4
Miami, Fla.	84	43	2	8
Norfolk, Va.	47	19	5	6
Richmond, Va.	78	41	1	5
Savannah, Ga.	28	9	1	2
St. Petersburg, Fla.	62	52	3	1
Tampa, Fla.	67	44	7	1
Washington, D. C.	174	83	5	24
Wilmington, Del.	46	21	3	3
EAST SOUTH CENTRAL:	538	299	25	26
Birmingham, Ala.	89	53	4	1
Chattanooga, Tenn.	47	22	1	6
Knoxville, Tenn.	23	10	-	-
Louisville, Ky.	114	72	9	1
Memphis, Tenn.	94	45	5	10
Mobile, Ala.	50	32	1	3
Montgomery, Ala.	26	13	1	-
Nashville, Tenn.	95	52	4	5
WEST SOUTH CENTRAL:	1,076	550	30	75
Austin, Tex.	36	17	2	3
Baton Rouge, La.	28	12	-	3
Corpus Christi, Tex.	17	8	-	-
Dallas, Tex.	149	78	2	9
El Paso, Tex.	24	8	4	3
Fort Worth, Tex.	78	45	1	5
Houston, Tex.	211	111	4	10
Little Rock, Ark.	54	29	1	4
New Orleans, La.	186	81	4	17
Oklahoma City, Okla.	74	44	1	7
San Antonio, Tex.	98	54	4	6
Shreveport, La.	62	30	4	5
Tulsa, Okla.	59	33	3	3
MOUNTAIN:	343	192	8	24
Albuquerque, N. Mex.	38	22	2	3
Colorado Springs, Colo.	12	8	-	-
Denver, Colo.	107	66	2	7
Ogden, Utah	17	5	1	2
Phoenix, Ariz.	64	32	1	6
Pueblo, Colo.	16	7	1	3
Salt Lake City, Utah	45	23	-	2
Tucson, Ariz.	44	29	1	1
PACIFIC:	1,601	923	27	81
Berkeley, Calif.*	18	12	-	1
Fresno, Calif.	43	24	1	2
Glendale, Calif.	34	23	-	1
Honolulu, Hawaii	48	23	2	3
Long Beach, Calif.	69	42	2	-
Los Angeles, Calif.	491	268	9	39
Oakland, Calif.	124	66	2	3
Pasadena, Calif.	43	36	1	-
Portland, Oreg.	88	59	-	1
Sacramento, Calif.	71	39	1	1
San Diego, Calif.	108	61	1	7
San Francisco, Calif.	222	120	4	7
San Jose, Calif.	27	16	-	2
Seattle, Wash.	145	84	3	9
Spokane, Wash.	28	20	-	2
Tacoma, Wash.	42	30	1	3
Total	11,715	6,638	383	653

*Estimate - based on average percent of divisional total.

Cumulative Totals
including reported corrections for previous weeks

All Causes, All Ages	492,210
All Causes, Age 65 and over	277,616
Pneumonia and Influenza, All Ages	19,938
All Causes, Under 1 Year of Age	29,251

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MEASLES – Orange County, California

Records of measles morbidity in Orange County, California, from 1958 through September 1965 are depicted in Figure 3. Between January 1 and the end of the 40th week of 1963, the County had experienced an epidemic of 2,737 reported cases. In the State of California as a whole, however, it was not until the comparable period of 1964 that an epidemic was recorded. During this time a total of 33,065 cases was reported in the State compared to the total of 20,904 cases during 1963.

In Orange County a total of 221 cases was recorded at the end of the 40th week of this year, compared to 168 cases in 1964. The next epidemic peak in the County would normally be predicted for the coming winter, following the cyclic pattern of the past. However, the increasing level in the County of immunization with measles vaccine may be expected to modify the pattern, assuming that the active immunization measures already undertaken among pre-school children can be intensified.

(Reported by Dr. Edward Lee Russell, Health Officer, Orange County Health Department, California; and Dr. Henry A. Renteln, Head Special Surveillance Section, Bureau of Communicable Disease, California Department of Public Health.)

Editorial Note: The recommendations of the Public Health Service Advisory Committee on Immunization Practice regarding the dosage schedule for measles vaccine are in the MMWR, Vol. 14, No. 7. A statement prepared by the same Committee on the importance of measles and methods for achieving high levels of measles immunization in the community is in the MMWR, Vol. 14, No. 36.

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 14,000, IS PUBLISHED AT THE COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

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THE EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT
COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE CDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

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